

45-09-537-859b-2_copy_28_99.rpt

C;Superfamily: macrophage inflammatory protein
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-99/Product: monocyte chemoattractant protein-2 #status predicted <MAT>
Query Match
Best Local Similarity 71.8%; Score 277; DB 2; Length 99;
Matches 51; Conservative 10; Mismatches 11; Indels 0; Gaps 0;
A;Residues: 1-99 <ROL>
QY 1 VSPITCCFNINRKPQLESYTRTNIQCPKAEVIFKTRKGKEVCAADPKERWVDSM 60
Db 28 VSPIITCCFGFLANGKIFKKLESYTRTNSCPCQEAVIFKTKAKEWCVADPQQRWNSM 87
QY 61 KHLDDQI^TQNLKP 72
Db 88 KLUQDKSQTPKP 99

RESULT 3

12 skin precursor - human
C;Species: Homo sapiens (man)
C;Date: 01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 20-Jun-2000
C;Accession: JCC912
R;Bartels, J.; Schlueter, C.; Richter, E.; Noso, N.; Kulke, R.; Christophers, E.; Schroedl, A.; Reference number: JCC912; MUID:9637440
A;Accession: JCC912
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-97 <BAR>
A;Cross-references: EMBL:275668; NID:91531982; PIDN:CAA99997.1; PID:91531983
C;Comment: This protein has eosinophil specific chemotactic activity.
C;Superfamily: macrophage inflammatory protein
C;Keywords: fibroblast
F;1-18/Domain: signal sequence #status predicted <SIG>
F;19-97/Domain: signal sequence #status predicted <SIG>

Query Match
Best Local Similarity 69.9%; Score 270; DB 2; Length 97;
Matches 48; Conservative 12; Mismatches 11; Indels 0; Gaps 0;
A;Residues: 1-99 <RCT>
QY 2 SIPTCCFNINRKPQLESYTRTNIQCPKAEVIFKTRKGKEVCAADPKERWDSM 61
Db 27 SVPTCCFNLAQRKIPQLESYTRTNSGCKPQAKAVIFKTKAKDICADPKRRWDSM 86

RESULT 4

62 HLDQIFONLKP 72
Db 87 YLDOQSKP^TPKP 97

RESULT 4

A0299 monocyte chemoattractant protein 1 precursor - human
N;Alternate names: GDPF-1; glioma-derived monocyte chemotactic factor 1; MCP-1; mc
N;Contains: glioma-derived chemotactic factor 2 (GDFC-2)
C;Species: Homo sapiens (man)
C;Date: 20-Feb-1993 #sequence_revision 20-Feb-1993 #text_change 16-Jul-1999
C;Accession: A35474; A33474; S03339; 151841; A60299; A32300; A32396; A34561; 157488; JCC1
R;Shyy, Y.J.; Li, Y.S.; Kolattukudy, P.E.; Biochem. Biophys. Res. Commun. 169, 346-351, 1990
A;Title: Structure of human monocyte chemotactic protein gene and its regulation by TPA.
A;Reference number: A35474; MUID:9029466
A;Accession: A35474
A;Molecule type: DNA
A;Residues: 1-99 <SHX>
A;Cross-references: GB:M37719; NID:9187447; PIDN:AAA18102.1; PID:9487124
R;Rollins, B.J.; Stier, P.; Ernst, T.; Wong, G.G.; Mol. Cell. Biol. 9, 4687-4695, 1989
A;Title: The human homolog of the JE gene encodes a monocyte secretory protein.

A;Reference number: A33476; MUID:90097880
A;Accession: A33476
A;Molecule type: mRNA
A;Residues: 1-99 <ROL>
R;Yoshimura, T.; Yukiki, N.; Moore, S.K.; Appella, E.; Lerman, M.I.; Leonard, E.J.; FEBS Lett. 244, 487-493, 1989
A;Title: Human monocyte chemoattractant protein-1 (MCP-1). Full-length cDNA cloning, expression, and characterization
A;Accession: S03339; MUID:89153605
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-99 <YOS>
A;Cross-references: GB:X14768; NID:934513; PIDN:CAA32876.1; PID:934514
A;Experimental source: glioma cell line U-105MG
R;Yoshimura, T.; Leonard, E.J.; Adv. Exp. Med. Biol. 305, 47-56, 1991
A;Title: Human monocyte chemoattractant protein-1 (MCP-1).
A;Accession: I51841; MUID:92095166
A;Status: preliminary; translated from GB/EMBL/DDJB
A;Molecule type: mRNA
A;Residues: 1-99 <K02>
A;Cross-references: GB:S71513; NID:9240867; PIDN:AAB20651.1; PID:9240868
R;Bottazzi, B.; Coiotta, F.; Sica, A.; Nobili, N.; Mantovani, A.; Int. J. Cancer 45, 795-797, 1990
A;Title: A chemoattractant, expressed in human sarcoma cells (tumor-derived chemotactic/MCAF).
A;Accession: A60299; MUID:90216082
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-99 <R02>
R;Furutani, Y.; Nomura, H.; Notake, M.; Oyamada, Y.; Fukui, T.; Yamada, M.; Larsen, C.; Biochem. Biophys. Res. Commun. 159, 249-255, 1989
A;Title: Cloning and sequencing of the cDNA for human monocyte chemoattractant and activator genes
A;Reference number: A32300; MUID:89165862
A;Accession: A32300
A;Molecule type: mRNA
A;Residues: 1-99 <FRUR>
A;Cross-references: GB:M24545; NID:9187334; PIDN:AAA18164.1; PID:g307163
R;Robinson, A.A.; Yoshimura, T.; Leonard, E.J.; Tanaka, S.; Griffin, P.R.; Shabanowitz, J.; Proc. Natl. Acad. Sci. U.S.A. 86, 1850-1854, 1989
A;Title: Complete amino acid sequence of a human monocyte chemoattractant, a putative protein
A;Reference number: A32396; MUID:89184525
A;Accession: A32396
A;Molecule type: protein
A;Residues: 'Y', 25-99 <ROB>
R;Beckock, B.; Conings, R.; Lenaerts, J.P.; Billiau, A.; Van Damme, J.; Biochem. Biophys. Res. Commun. 167, 904-909, 1990
A;Title: Identification of the monocyte chemoattractant protein from human osteosarcoma
A;Reference number: A34561; MUID:90211336
A;Accession: A34561
A;Molecule type: protein
A;Residues: 29-33, 'XXX', 36-52; 82-92 <DEC>
R;Li, Y.S.; Shyy, Y.J.; Wright, J.G.; Valente, A.J.; Cornhill, J.F.; Kolattukudy, P.E.; Mol. Cell. Biochem. 126, 61-68, 1993
A;Title: The expression of monocyte chemoattractant protein (MCP-1) in human vascular endothelial cells
A;Reference number: 157488; MUID:94150478
A;Accession: 157488
A;Status: translated from GB/EMBL/DDJB
A;Molecule type: mRNA
A;Residues: 1-99 <LTT>
A;Cross-references: GB:S69738; NID:9545464; PIDN:AB29926.1; PID:9545465
A;Ye, Q.N.; Su, G.F.; Yuan, Y.; Huang, C.F.; Chinese J. Microbiol. Immunol. 14, 29-32, 1994
A;Title: The PCR cloning and sequencing of human monocyte chemoattractant protein-1
A;Accession: JCL096
A;Molecule type: mRNA
A;Residues: 24-28, 'Q', 30-99 <YEQ>

Copyright (c) 1993 - 2000 Compugen Ltd.	GenCore version 4.5
OM Protein - protein search, using sw model	
Run on : August 12, 2002, 10:48:00 ; Search time 11.92 Seconds (without alignments)	(233.876 Million cell updates/sec)
Title: US-09-537-859B-2_COPY_28_99	
Perfect score: 386	
Sequence: 1 VSIPIITCCFNVINRKIPIQR..... ERWWRDSDMKHLDQIFQNLKP 72	
Scoring table: BLOSUM62	
Tc : number of hits satisfying chosen parameters: 105224	
Minimum DB seq length: 0	
Maximum DB seq length: 200000000	
Post-processing: Minimum Match 0% Maximum Match 100%	
Listing first 45 summaries	
Database : SwissProt_40:*	
SUMMARIES	
Result No. 1	Score 386
Query SY08_HUMAN	Match Length 100.0
DB ID P80075	Score 99
Description homo sapien	Match 1
RESULT 1	SY08_HUMAN STANDARD:
ID SY08_HUMAN	PRM; 99 AA.
AC P80075; P78398;	
DT 01-DEC-1992 (Rel. 24, Created)	
DT 01-NOV-1997 (Rel. 35, Last sequence update)	
DT 16-OCT-2001 (Rel. 40, Last annotation update)	
DE Small inducible cytokine A8 precursor (Monocyte chemotactic protein 2) (MCP-2) (Monocyte chemoattractant protein 2) (MCP14).	
DE SCYR8 OR SCYA10 OR MCP2.	
GN Homo sapiens (Human)	
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. OC	
OX NCBI_TaxID:9606;	
RT [1]	
RT SEQUENCE FROM N.A., AND VARIANT GLN-69.	
RX MEDLINE=97237052; PubMed=9119400;	
RA van Coillie E., Fiten P., Nomiyama H., Sakaki Y., Miura R., Yoshi O., van Damme J., Opdenakker G.;	
RA "The human MCP-2 gene (SCYA8): cloning, sequence analysis, tissue expression, and assignment to the CC chemokine gene contig on chromosome 17q11.2.";	
RT Genomics 40:323-331(1997).	
RN [2]	
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RC TISSUE=Bone marrow;	
RX MEDLINE=97224420; PubMed=9070881;	
RA van Coillie E., Froyen F., Nomiyama H., Miura R., Fiten P., van Aelst L., van Damme J., Opdenakker G.;	
RA "Human monocyte chemoatactic protein-2: cDNA cloning and regulated expression of mRNA in mesenchymal cells.";	
RT Biochem. Biophys. Res. Commun. 231:76-730(1997).	
RN [3]	
RP SEQUENCE OF 23-99 FROM N.A.	
RX MEDLINE=91207938; PubMed=2518726;	
RA Chang H.C., Hsu F., Freeman G.J., Griffin J.D., Reinherz E.L.; van Coillie E., Froyen F., Nomiyama H., Miura R., Fiten P., van Aelst L., van Damme J., Opdenakker G.;	
RA "Cloning and expression of a gamma-interferon-inducible gene in monocytes: a new member of a cytokine gene family.";	
RT Int. Immunol. 1:388-399(1989).	
RN [4]	
RP SEQUENCE OF 26-99.	
RC TISSUE=Osteosarcoma;	
RX MEDLINE=92308955; PubMed=1613466;	
RA van Damme J., Proost P., Lenaerts J.-P., Opdenakker G.;	
RA "Structural and functional identification of two human, tumor-derived monocyte chemoattractive proteins (MCP-2 and MCP-3) belonging to the chemokine family.";	
RA J. Exp. Med. 176:59-65(1992).	
RN [5]	
RP SUBUNIT.	
RX MEDLINE=97053697; PubMed=889811;	
RA Kim K.-S., Rajaratnam K., Clark-Lewis I., Sykes B.D.;	
RT "Structural characterization of a monomeric chemokine: monocyte chemoattractant protein-3";	
RT FEBS Lett. 395:277-282(1996).	
RL - ! FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, LYMPHOCYTES,	
GC	

RA Scheit K.K.;
 RT "Porcine luteal cells express monocyte chemoattractant protein-2
 (MC1-2); analysis by cDNA cloning and northern analysis.";
 RL Biochem. Biophys. Res. Commun. 205:148-153(1994).
 CC -!- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES. THIS PROTEIN
 CC CAN BIND HEPARIN.
 CC -----
 CC -!- SUBUNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM (BY SIMILARITY).
 CC -!- SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE
 CC C-C) (CHEMOKINE_CC).
 CC -----
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 between the Swiss Institute of Bioinformatics and the EMBL outstation -
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 CC -----
 CC DR EMBID: 248480; CA88371.1; -.
 CC DR HSSP; P51671; IECT.
 CC DR InterPro; IPR001811; Chemokine_1L8.
 CC DR InterPro; IPR000837; Small_cytokine_CC.
 CC DR Pfam; PF00048; IL8; 1.
 CC DR SMART; SM00199; SCY; 1.
 CC DR PROSITE; PS00472; SMALL_CYKOKINES_CC; 1.
 CC KW CYCOKINE; Chemotaxis; Signal; Heparin-binding; Inflammatory response.
 CC FT SIGNAL 1 23 BY SIMILARITY.
 CC FT CHAIN 24 99 SMALL INDUCIBLE CYTOKINE A8.
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 CC FT SIMILARITY).
 CC FT DISULFID 34 59 BY SIMILARITY.
 CC FT DISULFID 35 75 BY SIMILARITY.
 CC SQ SEQUENCE 99 AA; 10903 MW; D3DA0F7A964CDB1 CRC64;
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 ID EOTA_HUMAN STANDARD; PRT; 97 AA.
 AC P51671; P50877; 092490; Q92491;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 01-MAR-2002 (Rel. 41, Last annotation update)
 DE rotaxin precursor (Eosinophil chemotactic protein).
 GN SCYALL.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 RN NCBI_TaxID:9606;
 [1] RP SEQUENCE FROM N.A.
 RX MEDLINE=96181758; PubMed=8597956;
 RA Garcia-Zepeda E.A., Rothenberg M.E., Ownbey T.R., Leder P.,
 RA Lustig A.D.;
 RT "Human eotaxin is a specific chemoattractant for eosinophil cells and
 provides a new mechanism to explain tissue eosinophilia.";
 RT Nat. Med. 2:449-456(1996).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96189939; PubMed=8609214;
 RA Ponath P.D., Olin S., Ringer J.J., Clark-Lewis I., Wang J., Kassam N.,
 RA

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

RESULT	2		PRT;	100 AA.
Q9TQ4		PRELIMINARY;		
ID	Q9TQ4			
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RT	Werling D.;	"Role of chemokines in respiratory syncytial virus infection. ";		
RL	Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.			
DR	EMBL; AR399641; AKK94451.1; -.			
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OM protein - protein search, using sw model

Run on: August 12, 2002, 10:46:59 ; search time 30.03 Seconds

(without alignments)
266,311 Million cell updates/sec

Title: US-09-537-859B-2_COPY_28_99

Perfect score: 1 VSPITCCFNVINRKIPIQR.....ERWVRDSMVKHLDQIFONLKP 72

Sequence: AAYE9059

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 74574 seqs, 11073796 residues

Total number of hits satisfying chosen parameters: 74574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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22:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Length DB ID Description

Result No.	Score	Query	Length	DB	ID	Description
1	386	100.0	76	21	AAY69031	Amino acid sequenc
2	386	100.0	77	21	AAB15786	Human chemokine MC
3	386	100.0	99	20	AYK0500	C-C chemokine MCP
4	386	100.0	99	20	AYY01233	Wild type monocyte
5	386	100.0	99	20	AYY07237	Wild type monocyte
6	386	100.0	109	19	AYW42072	Human MC propotei
7	382	99.0	71	20	AYY07334	Truncated monocyte
8	382	99.0	71	20	AYY07238	Truncated monocyte
9	382	99.0	109	18	AYW26555	Human beta-chemoki
10	363	94.0	77	20	AYY14224	Chemokine MCP2.
11	348	90.2	72	16	AAR78024	Chemoattractant MC

12	267	69.2	74	21	AAY69023	Amino acid sequenc
13	267	69.2	97	17	AAW06577	Pancreas expressed
14	267	69.2	97	18	AAW14990	Human eosinocyte C
15	267	69.2	97	18	AAW0099	Human eotaxin. Ho
16	267	69.2	97	21	AB15794	A chemokine recept
17	267	69.2	323	21	AAYE9058	A chemokine recept
18	267	69.2	325	21	AAYE9059	A chemokine recept
19	267	69.2	330	21	AAYE9060	A chemokine recept
20	249	64.5	76	10	AAP50292	Peptide from human
21	249	64.5	76	13	AAR28660	MCF. Synthetic.
22	249	64.5	76	16	AAR87680	Monocyte chemoat
23	249	64.5	76	16	AAR87677	(3-Ala) MCP-1. Ho
24	249	64.5	76	17	AAW03774	Monocyte Chemoat
25	249	64.5	76	18	AAW11131	Mature human monoc
26	249	64.5	76	19	AAW40175	Matured chemotact
27	249	64.5	76	21	AAB12818	Human glima cell
28	249	64.5	99	19	AAR70804	Amno acid sequenc
29	249	64.5	99	20	AAYE9391	Mature MCP-1. Hom
30	249	64.5	99	20	AYX6176	Human monocyte che
31	249	64.5	99	21	AAR28663	MCF. Synthetic.
32	249	64.5	99	16	AAR23914	Human monocyte che
33	249	64.5	99	16	AAR70800	Chemoattractant pr
34	249	64.5	99	19	AAR0174	Macrophage chemot
35	249	64.5	99	20	AAYE9391	Human prostate can
36	249	64.5	99	21	AAYE9391	Monocyte chemoattr
37	249	64.5	99	21	AAB15785	Human Chemokine MC
38	249	64.5	99	22	AAB97914	Human monocyte che
39	249	64.5	325	21	AAYE9049	A chemokine recept
40	249	64.5	327	21	AAYE9050	A chemokine recept
41	249	64.5	332	21	AAYE9051	A chemokine recept
42	246	63.7	99	18	AAY13596	Monocyte chemoattr
43	245	63.5	99	11	AAR06398	Human MCP precurso
44	241	62.4	76	16	AAR87676	(24 Arg) MCP-1. H
45	241	62.4	104	19	AAYW56088	Murine monocyte ch

ALIGNMENTS

RESULT 1

ID	AAV69031	standard; protein; 76 AA.
XX		
AC		
AAV69031;		
XX		
DT		
30-MAY-2000		(first entry)
XX		
OS		
OS		
PN		
XX		
PD		
03-FEB-2000.		

1	386	100.0	76	21	AAY69031	Amino acid sequenc
2	386	100.0	77	21	AAB15786	Pancreas expressed
3	386	100.0	99	20	AYK0500	Human eosinocyte C
4	386	100.0	99	20	AYY01233	C-C chemokine MCP
5	386	100.0	99	20	AYY07237	Wild type monocyte
6	386	100.0	109	19	AYW42072	Wild type monocyte
7	382	99.0	71	20	AYY07334	Human MC propotei
8	382	99.0	71	20	AYY07238	Truncated monocyte
9	382	99.0	109	18	AYW26555	Human beta-chemoki
10	363	94.0	77	20	AYY14224	Chemokine MCP2.
11	348	90.2	72	16	AAR78024	Chemoattractant MC

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Length DB ID Description

Result No.	Score	Query	Length	DB	ID	Description
1	386	100.0	76	21	AAY69031	Amino acid sequenc
2	386	100.0	77	21	AAB15786	Pancreas expressed
3	386	100.0	99	20	AYK0500	Human eosinocyte C
4	386	100.0	99	20	AYY01233	C-C chemokine MCP
5	386	100.0	99	20	AYY07237	Wild type monocyte
6	386	100.0	109	19	AYW42072	Wild type monocyte
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SUMMARIES

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1	386	100.0	76	21	AAY69031	Amino acid sequenc
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5	386	100.0	99	20	AYY07237	Wild type monocyte
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SUMMARIES

Result No. Score Query Length DB ID Description

Result No.	Score	Query	Length	DB	ID	Description
1	386	100.0	76	21	AAY69031	Amino acid sequenc
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3	386	100.0	99	20	AYK0500	Human eosinocyte C
4	386	100.0	99	20	AYY01233	C-C chemokine MCP
5	386	100.0	99	20	AYY07237	Wild type monocyte
6	386	100.0	109	19	AYW42072	Wild type monocyte
7	382	99.0	71	20	AYY07334	Human MC propotei
8	382	99.0	71	20	AYY07238	Truncated monocyte
9	382	99.0	109	18	AYW26555	Human beta-chemoki
10	363	94.0	77	20	AYY14224	Chemokine MCP2.
11	348	90.2	72	16	AAR78024	Chemoattractant MC

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Length DB ID Description

Result No.	Score	Query	Length	DB	ID	Description
------------	-------	-------	--------	----	----	-------------

us-09-537-859b-2_copy_28_99.lay

PT
XX
XX
PS
Claim 4; Fig 1; 30pp; English.

This sequence represents the C-C chemokine MCP2. The invention relates to amino-terminally truncated C-C chemokines, having chemokine antagonistic activity. The truncated chemokines are specifically residues 26 to 91 of the RANTES sequence (see AAV05299) or residues 29 to 99 of the MC22 sequence (this sequence). The new chemokines are useful as medicaments, for diagnosis and/or treatment of diseases which require antagonistic activity of a chemokine e.g. inflammatory diseases, HIV infection, tumours and angiogenesis and haemopoiesis related diseases. The invention also relates to the use of CDP26/BP2 IV for treatment of inflammatory, immune and infectious diseases, including autoimmune diseases, atherosclerosis, pulmonary diseases and skin disorders.

SQ
sequence 99 AA; -
XX

truncated C-C chemokines having chemokine antagonistic activity. The new chemokines are useful as medicaments, for diagnosis and/or treatment of diseases which require antagonistic activity of a chemokine e.g. inflammatory diseases, HIV infection, tumours, and angiogenesis- and hematopoiesis-related diseases, including auto-immune diseases, atherosclerosis, pulmonary diseases and skin disorders.

SQ	Sequence	99 AA:
Query Match	100.0%	Score 386; DB 20; Length 99;
Best Local Similarity	100.0%	Pred. No. 8 2e-39;
Matches	72;	Mismatches 0; Indels 0; Gaps 0;
QY	1 VSIPIITCCFNVINKIPIQRLESYTRITNIQCPKAVIKTKRKGKVCADPKERWKVRSQ 60	
Db	28 vsipitccfavnirkipiqlqlesytritniqcpkeaviktkrgkvecadpkewrwdsm 87	
OY	61 KHLDOQTFOQNLPK 72	
Db	88 khldqfqnlkp 99	

ID	AAV07233	standard; protein; 99 AA
AC		
XX		
DT	06-JUL-1999	(first entry)
XX		
DE	wild type monocyte chemotactic pro-	
XX		
KW	Wild type; C-C chemokine; monocyte	
KW	regulated on activation normal T-	
KW	truncation; antagonist; medicament	
KW	tumour; angiogenesis; hematopoiesis	
KW	pulmonary disease; skin disorder.	
XX		
OS	omo sapiens.	
XX		
EP	EP906934-A1.	
PN		
XX		
PD	07-APR-1999.	
XX		
PF	29-SEP-1997;	97EP-0116863.
XX		
PR	29-SEP-1997;	97EP-0116863.
XX		
PA	(FSTF) ARS APPLIED RES SYSTEMS	
XX		
PI	Prost P, Struyf S, Van Damme	
DR		
XX		
PT	New amino-terminally truncated C-	
PT	activity for treatment of immune-	
PT	diseases	
XX		
PS	Disclosure; Fig 1; 29pp; English	
XX		
CC	This sequence represents the will	
CC	protein 2 (MCP2). The invention	

otein 2.
e chemotactic protein 2; MCP2; HIV;
cell expressed and secreted; RANTES;
diagnosis; inflammation; infection;
is; autoimmune disease; atherosclerosis;

—

KW
KW
XX
OS
XX
PN
XX
PD
XX
PF
XX
PR
PR
XX
PA
XX
PI
XX
DR
XX
PT
PT
PT
PS
PS
XX
CC
CC
CC
CC
CC
CC
CC
XX
SQ

Homo sapiens.	pulmonary dis-
EP905241-A1.	tumour; angio-
31-MAR-1999.	hemangioma;
10-MAR-1998;	hemangiopericytoma;
19-DEC-1997;	hemangiopericytoma;
29-SEP-1997;	hemangiopericytoma;
(ISTF) ARS I	hemangiopericytoma;
Proost P, S	hemangiopericytoma;
WPI; 1999-2000	hemangiopericytoma;
New amino-acid sequence for the C-terminal truncated protein 2 of the new hemokinin of diseases	hemangiopericytoma;
inflammatory diseases	hemangiopericytoma;
hematopoiesis	hemangiopericytoma;
atherosclerosis	hemangiopericytoma;
Sequence	hemangiopericytoma;

98EP-0104
97EP-0122
97EP-0116
97EP-0118
APPLIED RES
rueyf S, Va
5774/18.

monocyte infiltration of atherosclerotic lesions, angiogenesis and/or a chemokine cascade. These processes are disease-specific.

chemotactic activity. The treatment e.g., s, and

Query Match 100.0%; Score 386; DB 20; Length 99;
 Best Local Similarity 100.0%; Pred. No. 8.2e-39; Mismatches 0; Indels 0; Gaps 0;
 Matches 72; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 VSPIITCCFNVNKRKPIQRIESYTRITNTQCKPAVIFKTKRKEVCDPKERWRSRM 60
 Db 28 vsipitccfnvnrkpiqriesytritntqckpaavifktkrkevcdpkewrwdsm 87
 QY 61 KHDQIFQNLKP 72
 Db 88 khldqifqnlkp 99

RESULT 6
 AAW42072 ID AAW42072 standard; Protein; 109 AA.
 XX AC AAW42072;
 XX 09-JUN-1998 (first entry)
 DE Human MC proprotein.
 XX KW Human monocyte chemotactic proprotein; MCPP; Incyte clone; allergy;
 KW macrophage; diagnostic assay; body fluid; lung biopsy;
 KW autoimmune disease; AIDS; asthma; rheumatoid arthritis; NIDDM;
 KW breast cancer; bladder.
 OS Homo sapiens.
 XX PN W09802459-A1.
 XX PD 22-JAN-1998.
 XX PF 15-JUL-1997; 97WO-US12349.
 XX PR 15-JUL-1996; 96US-0683655.
 XX PA (INCY-) INCYTE PHARM INC.
 PI Au-Young J, Coleman R, Hillman JL;
 XX DR WPI; 1998-110529/10.
 DR N-PSDB; AAV09218.
 XX PT New human monocyte chemotactic proprotein - has homology to CC
 PS chemokine(s) useful for identifying agent for treating auto-immune
 diseases or allergic responses
 XA Claim 1; Pages 38-39; 53pp; English.
 PS The is a human monocyte chemotactic proprotein sequence. Its cDNA was
 first identified in Incyte clone 965517 from a breast cDNA library.
 CC Antisense nucleotides can be used to control human MCPP expression
 especially where it may lead to inappropriate monocyte or macrophage
 activity causing damage associated with allergic responses to organs
 such as the lungs. Antisense nucleotides and MCPP cDNA may be used
 in diagnostic assays of body fluids or biopsied tissues to detect
 CC expression levels of MCPP. MCPP cDNA may also be useful for
 treatment of disorders such as asthma, rheumatoid arthritis, NIDDM
 CC identify agonists, antagonists or inhibitors to modulate the activity of
 CC MCPP in allergic responses or autoimmune diseases such as AIDS.
 Sequence 109 AA;

Query Match 99.0%; Score 382; DB 20; Length 71;
 Best Local Similarity 100.0%; Pred. No. 1.7e-38; Mismatches 0; Indels 0; Gaps 0;
 Matches 71; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 2 VSPIITCCFNVNKRKPIQRIESYTRITNTQCKPAVIFKTKRKEVCDPKERWRSRM 61
 Db 1 vsipitccfnvnrkpiqriesytritntqckpaavifktkrkevcdpkewrwdsm 60
 QY 62 HDQIFQNLKP 72
 Db 61 khldqifqnlkp 71

RESULT 8
 AAY07238 DE Human beta-chemokine H1305 (MCP-2).
 ID AAY07238 standard; protein; 71 AA.
 XX
 AC AAY07238:
 XX DT 06-JUL-1999 (first entry)
 XX DE truncated monocyte chemotactic protein 2 (6-76).
 XX KW wild type; C-C chemokine; monocyte chemotactic protein 2; MCP2; HIV;
 KW regulation; on activation normal T-cell expressed and secreted; RANTES;
 KW truncation; antagonist; medicaments; diagnosis; inflammation; infection;
 KW tumour; angiogenesis; hematopoiesis; autoimmune disease; atherosclerosis;
 KW pulmonary disease; skin disorder.
 XX OS Homo sapiens.
 XX Synthetic.
 XX EP905241-A1.
 XX PDB 1-MAR-1999.
 XX PF 10-MAR-1998; 98EPB-0104216.
 XX PR 19-DEC-1997; 97EPB-0122471.
 XX PR 29-SEP-1997; 97EPB-0116863.
 XX PA (ISTP) ARS APPLIED RES SYSTEMS HOLDING NV.
 PI Proost P, Struyf S, Van Damme J;
 DR WPI; 1999-206774/18.
 XX PT New amino-terminally truncated C-C chemokines have antagonistic
 PT activity for treatment of immune, inflammatory and infectious
 PT diseases.
 XX PS Claim 4; Fig 1; 29pp; English.
 XX CC This sequence represents a truncated C-C chemokine monocyte chemotactic
 CC protein 2 (MCP2) containing amino acids 6-75 of the mature protein.
 CC The invention relates the generation of amino-terminal truncated C-C
 CC chemokines, having chemokine antagonistic activity. The new chemokines
 CC are useful as medicaments, for diagnosis and/or treatment of diseases
 CC which require antagonistic activity of a chemokine e.g. inflammatory
 CC diseases, HIV infection, tumors, and angiogenesis- and hematopoiesis-
 CC related diseases, including auto-immune diseases, atherosclerosis,
 CC pulmonary diseases and skin disorders.
 XX SQ Sequence 71 AA;

Query Match 99.0%; Score 382; DB 20; Length 71;
 Best Local Similarity 100.0%; Pred. No. 1.7e-38;
 Matches 71; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SIPITCCFPNVRKIPRIQRLSYTRITNIQCPKEAVIKFTTRGKEYCADPWERWDRSM 61
 Db 1 sипитccfpнvrкipriqrlsytritniqcpkeavikfttrgkeycadpwerwdrsm 60

QY 62 HLDQIFONLKP 72
 Db 61 hldqifonlkp 71

RESULT 9
 AAW26655 DE AAY14223 standard; peptide; 77 AA.
 ID AAW26655 standard; protein; 109 AA.
 XX AC AAW26655;
 XX DT 16-FEB-1998 (first entry)

Query Match 99.0%; Score 382; DB 18; Length 109;
 Best Local Similarity 98.6%; Pred. No. 2.8e-38;
 Matches 71; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 VISITCCFPNVRKIPRIQRLSYTRITNIQCPKEAVIKFTTRGKEYCADPWERWDRSM 97
 Db 38 vispitccfpнvrкipriqrlsytritniqcpkeavikfttrgkeycadpwerwdrsm 97

QY 61 KHLQIFONLKP 72
 Db 98 khldqifonlkp 109

RESULT 10
 AAY14223 DE AAY14223 standard; peptide; 77 AA.
 ID AAY14223
 XX AC AAY14223;
 XX DT 29-JUL-1999 (first entry)
 XX DE Chemokine hMCR2.

KW Chemokine; immune response; monocyte chemoattractant protein-1; MCP-1;
 KW chemokine-induced activity; inflammatory response; vascular indication;
 KW haemopoietic cell-associated activity; tumour; coronary artery disease;
 KW myocardial infarction; unstable angina pectoris; atherosclerosis; asthma;
 KW vasculitis; lentiviral infection; low bone mineral density; suppressor;
 KW parasitic infection; autoimmune disease; psoriasis; wound healing;
 KW organ transplant rejection; rheumatoid arthritis; allergy; therapy;
 KW arachidonic acid pathway.
 OS Homo sapiens.
 XX
 PN WO912968-A2.
 XX PD 18-MAR-1999.
 XX PF 11-SEP-1998; 98WO-US19052.
 XX PR 11-SEP-1997; 97US-0927939.
 XX (NEOR-) NEORX CORP.
 XX PI Grainger DJ, Kanaly ST, Tatalick LM;
 DR WPI; 1999-347124/29.
 XX PT New chemokine peptides and mimetics
 XX PS Example 1; Page 128; 208pp; English.
 CC This sequence represents the chemokine hmCP-2.
 CC The invention relates to chemokine peptides and mimetics, particularly
 CC derived from monocyte chemoattractant protein-1 (MCP-1). The chemokine
 CC peptides and variants and derivatives can inhibit or reduce or increase,
 CC or enhance chemokine-induced activity. They can be used for increasing or
 CC enhancing an inflammatory response, an immune response or haematopoietic
 CC cell-associated activity at a tumour site. They can also be used for
 CC preventing or inhibiting an indication associated with haematopoietic
 CC cell recruitment or histamine release from basophils or mast cells. They
 CC can also be used to modulate the chemokine-induced activity of
 CC haematopoietic cells in a preselected physiological site, to treat a
 CC vascular indication, e.g. coronary artery disease, myocardial infarction,
 CC infection or replication (e.g. HIV), low bone mineral density, a
 CC parasitic infection in a vertebrate animal (e.g. malaria), an autoimmune
 CC disease, to suppress tumour growth in a vertebrate animal, to prevent or
 CC treat psoriasis in a mammal, to enhance wound healing, to prevent or
 CC treat asthma, organ transplant rejection, rheumatoid arthritis or
 CC allergy. They can also be used to inhibit a product or intermediate in
 CC the arachidonic acid pathway and where leukotriene, thromboxane and/or
 CC prostaglandin are inhibited and to prevent or inhibit an indication
 CC associated with elevated TNF-alpha.
 XX Sequence 77 AA;

Query Match 94.0%; Score 363; DB 20; Length 77;
 Best Local Similarity 95.8%; Pred. No. 3 6e-36; Mismatches 0; Gaps 0;
 Matches 69; Conservative 0; Indels 3; Gaps 0;

QY 1 VSIPIITCCFNVINRKIPIQRLESYTRITINOCPPKEAVIFKTKRGKREVCAFPKERNVRSMD 60
 Db 6 vsipitccfvinknkiplqlesyrritnlpckeaavifktrgkrevcadpkernvrsmd 65

QY 61 KHLDOIFONLKP 72
 Db 61 khddqfqnlkp 72

SQ

RESULT 12

AY69023 ID AAY69023 standard; protein; 74 AA.
 XX AC AAY69023;
 XX DT 30-MAY-2000 (first entry)
 XX DE Amino acid sequence of chemokine receptor ligand eotaxin.
 XX KW Chemokine receptor; ligand; inflammatory response; immune effector cell;
 KW secondary tissue damage; central nervous system injury; eotaxin;
 KW CNS inflammatory disease; neurodegenerative disorder; heart disease;
 KW inflammatory eye disease; inflammatory bowel disease;
 KW inflammatory joint disease; inflammatory kidney, renal disease;
 KW inflammatory lung disease; inflammatory nasal disease;
 KW inflammatory thyroid disease; thyroiditis; cytokine-regulated cancer.
 XX OS Homo sapiens.

RESULT 11
 AAR70804 ID AAR70804 standard; Protein; 72 AA.
 XX AC AAR70804;

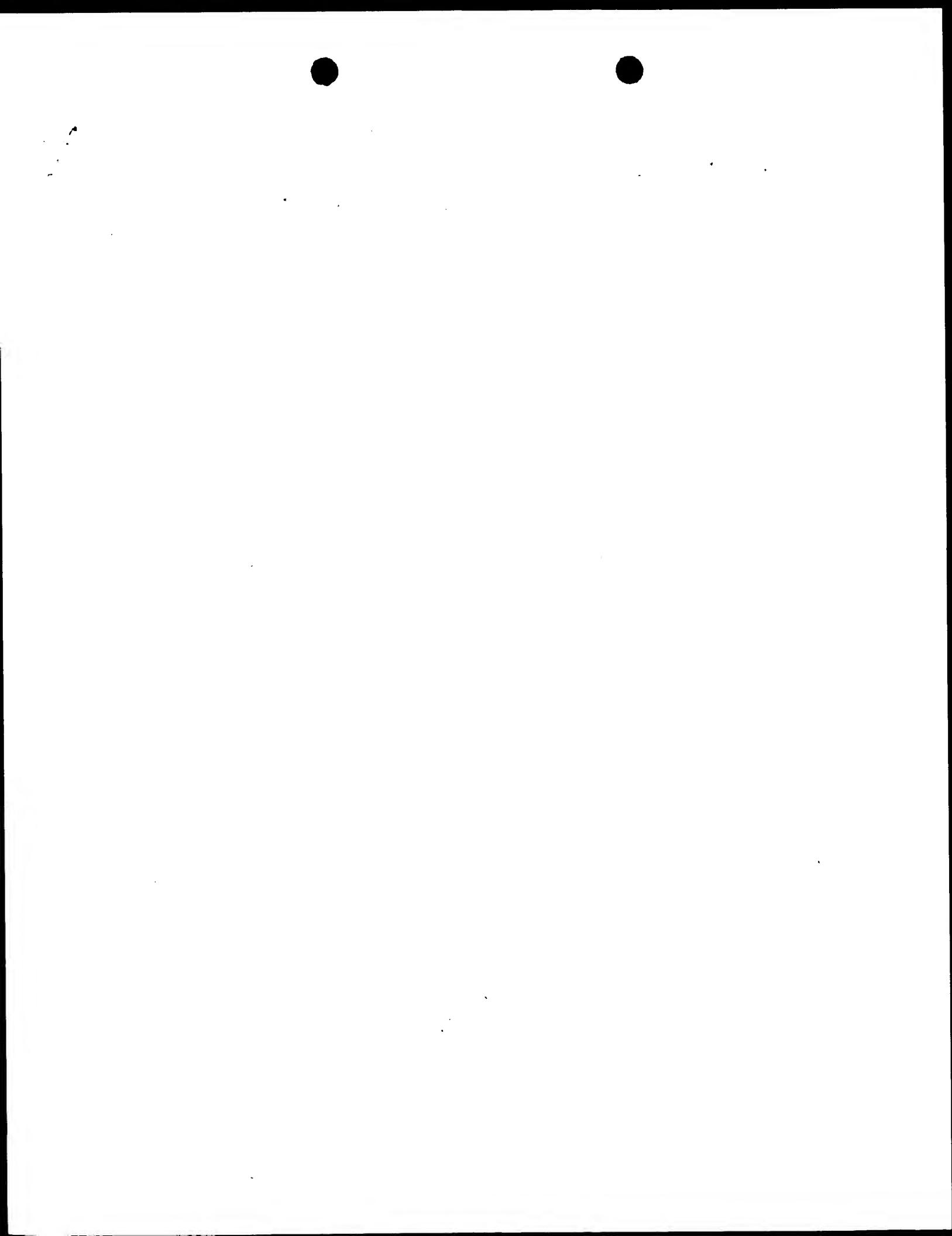
XX
XX WO200004926-A2.
XX
XX 03-FEB-2000.
XX
XX PF 21-JUL-1999; 99WO-CA00659.
XX PR 22-JUL-1998; 98US-0120523.
XX PA (OSPR-) OSPREY PHARM LTD.
XX PI McDonald JR., Coggins PU;
XX DR WPI; 2000-182542/16.
XX PT A new therapeutic agent comprising a conjugate for treating secondary tissue damage and other disease conditions like Alzheimer's disease, stroke, Parkinson's disease and atherosclerosis - disclosure; Page 59; 204pp; English.
CC The present sequence represents a chemokine receptor ligand. The present specification describes a conjugate, comprising a targeted agent and a chemokine receptor ligand. The conjugate binds to a chemokine receptor resulting in internalisation of the targeted agent in cells bearing the receptor. The conjugates are used for formulating a medicament or for treating disorders associated with inflammatory responses resulting from activation, proliferation and migration of immune effector cells. The disorders or disease states comprise secondary tissue damage such as central nervous system (CNS) injury, CNS inflammatory diseases, neurodegenerative disorders, heart disease, inflammatory eye diseases, inflammatory bowel diseases, inflammatory joint diseases, inflammatory kidney or renal diseases, inflammatory lung diseases, inflammatory nasal diseases, inflammatory thyroid disease such as thyroiditis, or cytokine-regulated cancers.
CC Sequence 74 AA;
XX SQ
Query Match Similarity 69.2%; Score 267; DB 21; Length 74;
Best Local Similarity 66.2%; Pred. No. 1.2e-24; Indels 0; Gaps 0;
Matches 47; Conservative 13; Mismatches 11; Indels 0; Gaps 0;
OY 2 SIPTCCFNVINKRIPIQLESYTRITNIQCPKEAVIKFKRKGEVKCAPPKMRWDRSMK 61
Db 4 svpttccfnlankkplqlgriesyrtsqkcpavifktklakdcpkkwvqdsmk 63
OY 62 HLDOTFONLKP 72
Db 87 yldqksptpkp 97
OY 62 HLDOTFONLKP 72
Db 87 yldqksptpkp 97
RESULT 14
AAW14990
ID AAW14990 standard; Protein; 97 AA.
AC AAW14990;
XX DT 01-DEC-1997 (first entry)
XX DE Human eosinocyte CC type chemokine eotaxin.
XX KW Human; eosinocyte; CC type; chemokine; eotaxin; calcium; skin; small intestine; agonist; screening; antagonist; inflammation; antibody; diagnosis; assay; disorder; asthma; allergy; atopic.
XX OS Homo sapiens.
XX PN W09712914-A1.
XX PD 10-APR-1997.
XX PF 01-OCT-1996; 96WO-JP02851.
XX PR 28-FEB-1996; 96JP-0041965.
XX PR 05-OCT-1995; 95JP-0259067.
XX PA (SHIO) SHIONOGI & CO LTD.
XX PI Harada S, Kitaura M, Nakajima T;
XX DR WPI; 1997-226168-20.
XX DR N-PADB; AAT62944.
XX PT Human CC chemokine (eotaxin) active on eosinocytes - useful for screening for eotaxin (antagonist(s)), e.g. for treating
PP 16-FEB-1996; 96WO-US02225.

Mon Aug 12 10:36:57 2002

us-09-537-859b-2_copy_28_99.rag

Page 9

Search completed: August 12, 2002, 10:47:58
Job time: 59 sec



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Gencore version 4.5

OM protein - protein search, using sw model

Run on: August 12, 2002, 10:46:59 ; Search time 13.03 Seconds
(Without alignments)

US-09-537-859B-2_COPY_28_99

Title: Perfect score: 1

Sequence: VSIPIITCCFNVIRKPIQR.....ERWYRDSMRLHQIFQNLKP 72

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

To number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA,*

1: /cgnr_6/ptodata/2/1aa/5A_COMB.pep:*

2: /cgnr_6/ptodata/2/1aa/5B_COMB.pep:*

3: /cgnr_6/ptodata/2/1aa/6A_COMB.pep:*

4: /cgnr_6/ptodata/2/1aa/6B_COMB.pep:*

5: /cgnr_2/6/ptodata/2/1aa/PCTUS_COMB.pep:*

6: /cgnr_2/6/ptodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	386	100.0	74	2	US-08-615-232A-6
2	386	100.0	74	3	US-08-479-10087-5
3	386	100.0	76	1	US-08-615-232A-6
4	386	100.0	76	2	US-08-479-10087-5
5	386	100.0	76	4	US-08-479-10087-5
6	386	100.0	77	1	US-08-479-10087-5
7	386	100.0	77	2	US-08-479-10087-5
8	386	100.0	77	2	US-08-479-10087-5
9	386	100.0	77	2	US-08-479-10087-5
10	267	69.2	74	4	US-08-613-822-20
11	255	66.2	96	4	US-09-230-637-44
12	249	64.5	76	1	US-07-956-62A-1
13	249	64.5	76	1	US-08-210-958-1
14	249	64.5	76	1	US-08-215-659-1
15	249	64.5	76	2	US-08-716-189-2
16	249	64.5	76	2	US-08-615-232A-5
17	249	64.5	76	3	US-08-479-10087-5
18	249	64.5	78	1	US-08-482-111-12
19	249	64.5	78	1	US-08-482-111-12
20	249	64.5	78	5	PCT-US95-00605-1
21	249	64.5	99	1	US-08-421-144A-35
22	249	64.5	99	1	US-08-482-847-35
23	249	64.5	99	1	US-08-341-492B-8
24	249	64.5	99	1	US-08-480-449-19
25	249	64.5	99	2	US-08-479-126B-5
26	249	64.5	99	2	US-08-421-144A-35
27	64.5	99	2	US-08-720-830B-5	

ALIGNMENTS

RESULT 1

US-08-615-232A-6

Sequence 6, Application US/08615232A

Patent No. 5993814

GENERAL INFORMATION:

APPLICANT: WILLIAMS, TIMOTHY J.

APPLICANT: JOSE, PETER J.

APPLICANT: GRIFFITHS-JOHNSON, DAVID A.

APPLICANT: HSUAN, JOHN J.

TITLE OF INVENTION: CHEMOTACTIC CYTOKINE

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSEE: NIXON & VANDERHYPE, P.C.

STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR

CITY: ARLINGTON

STATE: VIRGINIA

Country: U.S.A.

ZIP: 22201-4714

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patientin Release #1.0, Version #1.25 (BPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/615, 232A

FILING DATE: 13-AUG-1996

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: GB 9318984

FILING DATE: 14-SEP-1993

APPLICATION NUMBER: GB 9408602

FILING DATE: 29-APR-1994

ATTORNEY/AGENT INFORMATION:

NAME: WILSON, MARY J.

REGISTRATION NUMBER: 32, 955

REFERENCE/DOCKET NUMBER: 550-32

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 816-4000

TELEFAX: (703) 816-4100

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 74 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-615-232A-6

Best Local Similarity 100.0%; Pred. No. 1.3e-43; Mismatches 0; Indels 0; Gaps 0;

RESULT 2
US-08-470-323-6
Sequence 6, Application US/08470323A
; Patent No. 6031080
; GENERAL INFORMATION:
; APPLICANT: WILLIAMS, TIMOTHY J.
; APPLICANT: JOSE, PETER J.
; APPLICANT: GRIFFITHS-JOHNSON, DAVID A.
; TITLE OF INVENTION: CHEMOTACTIC CYTOKINE
FILE REFERENCE: 550-33
CURRENT APPLICATION NUMBER: US/08/470,323A
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: PCT/GB94/02006
EARLIER FILING DATE: 1994-09-14
EARLIER APPLICATION NUMBER: GB 9318984.3
EARLIER FILING DATE: 1993-09-14
EARLIER APPLICATION NUMBER: GB 94086902.2
EARLIER FILING DATE: 1994-04-29
NUMBER OF SEQ ID NOS: 11
SEQ ID NO 5
LENGTH: 74
TYPE: PRT
ORGANISM: human
US-08-470-323-6

Query Match 100.0%; Score 386; DB 3; Length 74;
Best Local Similarity 100.0%; Pred. No. 1.3e-43; Mismatches 0; Indels 0; Gaps 0;

RESULT 3
US-08-480-449-20
; Sequence 20, Application US/08480449
; Patent No. 5688927
; GENERAL INFORMATION:
; APPLICANT: Godista, Ronald
; APPLICANT: Gray, Patrick W.
; TITLE OF INVENTION: MACROPHAGE DERIVED CHEMOKINE
; NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60605-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480-449-20
FILING DATE: 30-SEP-1996
CLASSIFICATION: 530
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/GB95/00733
FILING DATE: 31-MAR-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: GB 9406463.1
FILING DATE: 31-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: SADOF, B. J.
REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 117-219

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/480,449
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Gass, David A.
REGISTRATION NUMBER: 38,153
REFERENCE/DOCKET NUMBER: 27866/32779
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 75 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "Hu MCP-2"
US-08-480-449-20

Query Match 100.0%; Score 386; DB 1; Length 76;
Best Local Similarity 100.0%; Pred. No. 1.3e-43; Mismatches 0; Indels 0; Gaps 0;

RESULT 4
US-08-716-188-3
; Sequence 3, Application US/08716188
; Patent No. 5908829
; GENERAL INFORMATION:
; APPLICANT: KELLY, RODNEY W
; TITLE OF INVENTION: USE OF MCP-1 FOR INDUCING RIPENING OF
; TITLE OF INVENTION: THE CERVIX
; NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHOF P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/716,188
FILING DATE: 30-SEP-1996
CLASSIFICATION: 530
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/GB95/00733
FILING DATE: 31-MAR-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: GB 9406463.1
FILING DATE: 31-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: SADOF, B. J.
REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 117-219

us-09-537-859b-2_copy_28_99.rai

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 703-816-4101
 TELEFAX: 703-816-4100

INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 76 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLogy: linear
 MOLECULE TYPE: Peptide

US-08-716-188-3

Query Match 100.0%; Score 386; DB 2; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

Query Match 100.0%; Score 386; DB 2; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

Query Match 100.0%; Score 386; DB 2; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

Query Match 100.0%; Score 386; DB 2; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

Query Match 100.0%; Score 386; DB 2; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

RESULT 5
 US-08-660-542-20
 ; Sequence 20, Application US/08660542

PATENT NO. 5932703
 GENERAL INFORMATION:

APPLICANT: Godiska, Ronald
 APPLICANT: Gray, Patrick W.
 TITLE OF INVENTION: MACROPHAGE DERIVED CHEMOKINE AND CHEMOKINE
 TITLE OF INVENTION: ANALOGS

NUMBER OF SEQUENCES: 32
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 ADDRESS: 6300 Sears Tower, 233 South Wacker Drive

CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60606-6402

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patientin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/660,542

FILING DATE:
 FILING DATE:
 CLASSIFICATION: 514

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/558,658
 FILING DATE: 16-NOV-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/479,620
 FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:
 NAME: Gass, David A.
 REGISTRATION NUMBER: 38,153
 REFERENCE/DOCKET NUMBER: 27866/32780
 TELECOMMUNICATION INFORMATION:

TELEPHONE: 312/474-6300
 TELEFAX: 25-3856
 INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:
 LENGTH: 76 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLogy: linear
 MOLECULE TYPE: peptide

FEATURE:
 NAME/KEY: misc_feature
 OTHER INFORMATION: "Hu MCP-2"

REFERENCE/DOCKET NUMBER: 27866/33318
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 312/474-0448

INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 76 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLogy: linear
 MOLECULE TYPE: peptide

REFERENCE/DOCKET NUMBER: 27866/33318
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 312/474-0448

INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 76 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLogy: linear
 MOLECULE TYPE: peptide

RESULT 6
 US-08-479-603-20
 ; Sequence 20, Application US/08479603
 ; PATENT NO. 6320023
 ; GENERAL INFORMATION:
 APPLICANT: Godiska, Ronald
 APPLICANT: Gray, Patrick W.
 TITLE OF INVENTION: MACROPHAGE DERIVED CHEMOKINE
 NUMBER OF SEQUENCES: 24
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 ADDRESS: 6300 Sears Tower, 233 South Wacker Drive
 STREET: 6300 Sears Tower, 233 South Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60606-6402

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patientin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/479,603
 FILING DATE:
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Gass, David A.
 REGISTRATION NUMBER: 38,153
 REFERENCE/DOCKET NUMBER: 27866/32780
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 25-3856
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 76 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLogy: linear
 MOLECULE TYPE: peptide
 FEATURE:
 NAME/KEY: misc_feature
 OTHER INFORMATION: "Hu MCP-2"

Query Match 100.0%; Score 386; DB 4; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

Query Match 100.0%; Score 386; DB 4; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

Query Match 100.0%; Score 386; DB 4; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

Query Match 100.0%; Score 386; DB 4; Length 76;
 Best Local Similarity 100.0%; Pred. No. 1. 3e-43; Indels 0; Gaps 0;
 Matches 72; Conservative 0; Mismatches 0; Gaps 0;

QY 61 KHDQIFQNLKP 72
 |||||
 Db 65 KHDQIFQNLKP 76

RESULT 7 US-08-347-492B-9
 ; Sequence 9, Application US/08347492B
 ; Patent No. 562008
 ; GENERAL INFORMATION:
 ; ; APPLICANT: WILDE, CRAIG G.
 ; ; APPLICANT: HAWKINS, PHILLIP R.
 ; ; APPLICANT: BANDMAN, OLGA
 ; ; TITLE OF INVENTION: EXPRESSED CHEMOKINES, THEIR
 ; ; NUMBER OF SEQUENCES: 12
 ; ; CORRESPONDENCE ADDRESS:
 ; ; ADDRESSEE: Incyte Pharmaceuticals, Inc.
 ; ; STREET: 3174 Porter Drive
 ; ; CITY: Palo Alto
 ; ; STATE: CA
 ; ; COUNTRY: U.S.
 ; ; ZIP: 94304
 ; ; COMPUTER READABLE FORM:
 ; ; MEDIUM TYPE: DISKETTE
 ; ; COMPUTER: IBM COMPATIBLE
 ; ; OPERATING SYSTEM: DOS
 ; ; SOFTWARE: FASTSEQ Version 1.5
 ; ; CURRENT APPLICATION DATA:
 ; ; APPLICATION NUMBER: 12
 ; ; FILING DATE: 05-OCT-1994
 ; ; PRIORITY DATE: 29-NOV-1994
 ; ; PRIOR APPLICATION DATA:
 ; ; APPLICATION NUMBER: 08/303,241
 ; ; FILING DATE: 07-SEP-1994
 ; ; APPLICATION NUMBER: 08/320,011
 ; ; FILING DATE: 05-OCT-1994
 ; ; ATTORNEY/AGENT INFORMATION:
 ; ; NAME: Luther, Barbara J.
 ; ; REFERENCE/DOCKET NUMBER: PR-0024
 ; ; TELECOMMUNICATION INFORMATION:
 ; ; TELEPHONE: 415-855 0555
 ; ; TELEFAX: 415-852-0195
 ; ; INFORMATION FOR SEQ ID NO: 9:
 ; ; SEQUENCE CHARACTERISTICS:
 ; ; LENGTH: 77 amino acids
 ; ; TYPE: amino acid
 ; ; STRANDEDNESS: single
 ; ; TOPOLOGY: linear
 ; ; MOLECULE TYPE: protein
 ; ; US-08-421-144A-6

Query Match 100.0%; Score 386; DB 1; Length 77;
 Best Local Similarity 100.0%; Score 386; DB 2; Length 77;
 Matches 72; Conservative 0; Mismatches 0; Pred. No. 1.4e-43; Indels 0; Gaps 0;

QY 1 VSIPIITCCFNWKIRKIPIQRLSSTYTRTNIQCPKEAVIKFKRKGKEVCAUPKWRDMS 60
 Db 6 VSIPIITCCFNWKIRKIPIQRLSSTYTRTNIQCPKEAVIKFKRKGKEVCAUPKWRDMS 65
 QY 61 KHDQIFQNLKP 72
 Db 66 KHDQIFQNLKP 77

RESULT 9 US-08-798-143-9
 ; Sequence 9, Application US/08798143
 ; Patent No. 5930068
 ; GENERAL INFORMATION:
 ; ; APPLICANT: WILDE, CRAIG G.
 ; ; APPLICANT: HAWKINS, PHILLIP R.
 ; ; APPLICANT: BANDMAN, OLGA
 ; ; APPLICANT: Seilhamer, Jeffrey J.
 ; ; TITLE OF INVENTION: EXPRESSED CHEMOKINES, THEIR
 ; ; NUMBER OF SEQUENCES: 12
 ; ; CORRESPONDENCE ADDRESS:
 ; ; ADDRESSEE: Incyte Pharmaceuticals, Inc.
 ; ; STREET: 3174 Porter Drive
 ; ; CITY: Palo Alto
 ; ; STATE: CA
 ; ; COUNTRY: U.S.
 ; ; ZIP: 94304
 ; ; COMPUTER READABLE FORM:

MEDIUM TYPE: diskette
 COMPUTER: IBM compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSEQ Version 1.5
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/798,143
 FILING DATE: 10-FEB-1997
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/347,492
 FILING DATE: 29-NOV-1994
 APPLICATION NUMBER: 08/303,241
 FILING DATE: 07-SEP-1994
 APPLICATION NUMBER: 08/320,011
 FILING DATE: 05-OCT-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Luther, Barbara J
 REGISTRATION NUMBER: 33,954
 REFERENCE/DOCKET NUMBER: PF-0024
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-852-0555
 TELEFAX: 415-852-0195
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 77 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Peptide
 IMMEDIATE SOURCE:
 LIBRARY: GENBANK
 CLONE: GI 126829
 ; US-08-798-143-9

Query Match 100.0%; Score 386; DB 2; Length 77;
 Best Local Similarity 100.0%; Pred. No.: 1; 4e-43; Mismatches 0; Indels 0; Gaps 0;
 Matches 72; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 VSIPITCCFNVNIRKIPRIORLESYTRITNIQCPKEAVIFKTRKGKEYCADCPRKRWRDSM 60
 Db 6 VSIPITCCFNVNIRKIPRIORLESYTRITNIQCPKEAVIFKTRKGKEYCADCPRKRWRDSM 65

QY 61 KHLDOFQNLKP 72
 Db 66 KHLDOFQNLKP 77

RESULT 11
 US-09-230-637-44
 Sequence 44, Application US/09230637
 GENERAL INFORMATION:
 Patent No. 6264958

APPLICANT: Hayward, Gary
 APPLICANT: Nicholas, John
 APPLICANT: Hardwick, J. Marie
 APPLICANT: Reitz, Marvin
 TITLE OF INVENTION: No. 6264958el Genes of Kaposi's Sarcoma
 TITLE OF INVENTION: Associated Herpesvirus
 FILE REFERENCE: 1107.78372
 CURRENT APPLICATION NUMBER: US/09/230,637
 CURRENT FILING DATE: 1999-11-23
 PRIOR APPLICATION NUMBER: 60/022,591
 PRIOR FILING DATE: 1996-07-25
 PRIOR APPLICATION NUMBER: PCT US 97/12931
 PRIOR FILING DATE: 1997-07-24
 NUMBER OF SEQ ID NOS: 62
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 44
 LENGTH: 96
 TYPE: PRT
 ORGANISM: Homo sapiens
 ; US-09-230-637-44

Query Match 69.2%; Score 267; DB 4; Length 74;
 Best Local Similarity 66.2%; Pred. No. 5.4e-28; Mismatches 11; Indels 0; Gaps 0;
 Matches 47; Conservative 13; MisMatches 11; Indels 0; Gaps 0;

QY 2 SIPITCCFNVNIRKIPRIORLESYTRITNIQCPKEAVIFKTRKGKEYCADCPRKRWRDSM 61
 Db 4 SVPTCCFNLNARKIPQLQRESYRRTSOKCPOKAVIFKTKLAKDICADPKKKWQDSM 63

QY 62 HLDQFQNLKP 72
 Db 64 YLDQKSPTPKP 74

RESULT 12
 US-07-956-862A-1
 Sequence 1, Application US/07956862A
 ; Patent No. 5413778
 GENERAL INFORMATION:

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/613,822
 FILING DATE: 23-FEB-1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:

us-09-537-85yb-2_copy_28_99.html

APPLICANT: KUNKEL, STEVEN L.
 APPLICANT: LYLE, LEON R.
 APPLICANT: STRIETER, ROBERT M.
 TITLE OF INVENTION: LABELLED MONOCYTE CHEMOATTRACTANT PROTEIN MATERIAL AND MEDICAL USES
 TITLE OF INVENTION: THEROF NUMBER OF SEQUENCES: 1 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Rothwell, Figg, Ernst & Kurz STREET: Suite 701-E, 555 Thirteenth St., N.W. CITY: Washington STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20004 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/956, 862A FILING DATE: 05-OCT-1992 CLASSIFICATION: 424 ATTORNEY/AGENT INFORMATION:
 NAME: REPPER, GEORGE R.
 REGISTRATION NUMBER: 31,414 REFERENCE/DOCKET NUMBER: 1670-197A TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202)783-6040 TELEFAX: (202)783-6031 INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS:
 LENGTH: 76 amino acids TYPE: amino acid TOPOLOGY: linear MOLECULE TYPE: peptide HYPOTHETICAL: NO FRAGMENT TYPE: N-terminal
 ULT 13 08-250-958-1 sequence 1, Application US/08250958
 agent No. 557173
 GENERAL INFORMATION:
 APPLICANT: LYLE, LEON R.
 APPLICANT: KUNKEL, STEVEN L.
 APPLICANT: STRIETER, ROBERT M.
 TITLE OF INVENTION: THERAPEUTIC TREATMENT FOR INHIBITION OF VASCULAR RESTENOSIS TITLE OF INVENTION: VASCULAR RESTENOSIS NUMBER OF SEQUENCES: 10 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Rothwell, Figg, Ernst & Kurz STREET: Suite 701-E, 555 Thirteenth St., N.W. CITY: Washington STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20004 COMPUTER READABLE FORM:

APPLICATION NUMBER: US/08/250, 958
 FILING DATE: 27-MAY-1994
 CLASSIFICATION: 514
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 07/965, 678
 FILING DATE: 22-OCT-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: WALKER, Barbara W.
 REGISTRATION NUMBER: 35, 400
 REFERENCE/DOCKET NUMBER: 2077-206A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202)783-6040
 TELEFAX: (202)783-6031
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 76 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 HYPOTHETICAL: NO
 FRAGMENT TYPE: N-terminal
 ;
 US-08-250-958-1

RESULT 14
 Query Match 64 %; Score 249; DB 1; Length 76;
 Best Local Similarity 62.0%; Pred. No. 1 3e-25; Gaps 0;
 Matches 44; Conservative 12; Mismatches 15; Indels 0; Gaps 0;

QY 1 VSIPTCCNVNKRPIQLESYRITNQCPKEAVIKTKRGKEVADPKERWVRDSM 60
 Db 5 INAPVWCYCNTRKISVORLASYRRTSKCPKEAVIKTKVAEICADPKOKWQDSM 64

OY 61 KHLQDFQNLK 71
 Db 65 DHLQDFQNLK 75

APPLICANT: Strieter, Robert M.
TITLE OF INVENTION: LABELED CHEMOKINE MATERIALS AND
 TITLE OF INVENTION: MEDICAL USES THEREOF
NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Rotwell, Ernst & Kurz
 STREET: Suite 701-E, 555 Thirteenth St., N.W.
 CITY: Washington
 STATE: D. C.
 COUNTRY: U.S.A.
 ZIP: 20004

COMPUTER REARMBLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/235, 659
 FILING DATE: 29-APR-1994
 CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 07/956, 862
 FILING DATE: 05-OCT-1992

